

REMARKS

In accordance with the foregoing, claims 1 and 20 are amended, and claims 1-10 and 20-27 are pending and under consideration. No new matter is presented in this Amendment.

RESPONSE TO EXAMINER'S ARGUMENTS:

The Examiner indicated that the amendments to the claims filed on August 16, 2007. would not be given patentable weight due to being in the preamble. The applicants have amended the independent claims to explicitly recite the limitations in the body, instead of the preamble.

REJECTIONS UNDER 35 U.S.C. §102:

Claims 1-3, 10, 20-22 and 27 are rejected under 35 U.S.C. §102(b) as being anticipated by Kobayashi (U.S. Patent 6,097,695). The applicant respectfully traverses the rejection.

Kobayashi discloses a method and apparatus for manufacturing optical disks (Kobayashi, col. 1, lines 8-10.) An optical head uses a laser beam to create a groove running from an internal circumference of an optical disk to an external circumference of the optical disk (col. 3, lines 53-55). The optical head is driven based on a wobble signal (col. 4, lines 20-23.) This wobble signal is created, in part, by performing biphase modulation on wobble data (col. 5, lines 20-21). The bi-phase-modulated wobble data is subsequently phase-modulated to generate the wobble signal (col. 5, lines 55-60.) Since the entire groove is formed based on the wobble signal, the wobble data is recorded throughout the disk.

Kobayashi further discloses a way to access the optical disk and retrieve the wobble data and user data recorded on the disk (Figures 6 and 7). A laser is aimed at the disk and the reflected light is split into two beams by a beam splitter (col. 7, lines 42-43). One of the beams is received by a photodetector 23, which detects a push-pull signal PP (col. 7, lines 56-57.) Another beam is received by two photodetectors 28 and 29, which outputs a reproduced signal MO (col. 8, lines 8-19.) The push-pull signal PP is used to extract the wobble data (col. 10, lines 7-9.)

In contrast, claim 1 recites, in part, an optical information storage medium whereon

optical information storage medium-related information is recorded in at least a portion of the lead-in area but not in the user data area by a first modulation method and reproduction-related user data are recorded in a portion of a remaining area of the optical information storage medium by a second modulation method which is different from the first modulation method, a reproduction-related user (RRU) data demodulator which demodulates the reproduction-related user data from a sum signal of the first and second electrical signals, and a read only memory-permanent information control (ROM-PIC) data demodulator which demodulates the optical information storage medium-related information from the sum signal.

Kobayashi does not disclose all the limitations of claim 1 as amended. For example, Kobayashi fails to disclose the ROM-PIC data demodulator recited by claim 1. The wobble data of Kobayashi is related to address data including the frame number (Sync no.) and track number (Track no.). Kobayashi, col. 4, lines 19-41. Furthermore, a frame number is allocated in each frame and a track number is allocated in each track, therefore the address data should be recorded in the at least user data area. The ROM-PIC data demodulator, as recited in claim 1, demodulates the optical information storage medium-related information from the sum signal. However, the optical information storage medium-related information from which the ROM-PIC demodulator reproduces the data is recorded in "at least a portion of the lead-in area but not in the user data area". The optical information storage medium-related information cannot be related to the address data disclosed by Kobayashi, since the address data disclosed by Kobayashi is recorded in the user data area. Thus, because the optical information storage medium-related information recited by claim 1 is different from the wobble data disclosed in Kobayashi, and because the ROM-PIC data demodulator recited by claim 1 demodulates the optical information storage medium-related information from the sum signal, it is respectfully submitted that Kobayashi does not disclose a ROM-PIC data demodulator that reads optical information storage medium related-information recorded in at least a portion of the lead-in area but not in the user data area. Accordingly, since Kobayashi does not disclose all the limitations of claim 1, the rejection of claim 1 should be withdrawn.

As to claims 2, 3, and 10, claims 2, 3, and 10 depend from claim 1 and are patentable for at least the reasons given above with respect to claim 1.

As to claim 20, claim 20 contains language similar to claim 1 and is deemed patentable for at least the reasons given above with respect to claim 1. Claims 22 and 27 depend from claim 1, and the rejection of claims 22 and 27 should be withdrawn for the reasons given above with respect to claim 1.

REJECTIONS UNDER 35 U.S.C. §103:

Claims 4-9 and 23-26 are rejected under 35 U.S.C. §103(a) as being unpatentable over Kobayashi (U.S. Patent 6,097,695). The applicant respectfully traverses the rejection.

Claims 4-9 depend from claim 1 and claims 23-26 depend from claim 20. As discussed above, Kobayashi fails to disclose all the limitations of claims 1 and 20. Thus, it is respectfully submitted that claims 4-9 and 23-26 are patentable for at least the same reasons that claims 1 and 20 are patentable, respectively.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

This response is filed pursuant to 37 C.F.R. § 1.116 and should be considered because no new search would be required and because the remarks, if considered by the Examiner, would place the application in better condition for appeal. No new search would be required because the claims have not been further amended, and the Examiner thus should have already conducted a full search on the claims as currently presented. Further, consideration of the above remarks would avoid presenting the Board with claims containing limitations not previously given patentable weight by the Examiner.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

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